	Application No.	Applicant(s)
Notice of Allowability	09/972,462	DELAIRE ET AL.
	Examiner	Art Unit
	KAMAL B. DIVECHA	2151
The MAILING-DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in to or other appropriate communication. This application is suf-	nis application. If not included cation will be mailed in due course. THIS
1. This communication is responsive to <u>07/05/2005</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-29</u> .		
3. X The drawings filed on <u>05 October 2001</u> are accepted by the	e Examiner.	
4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application cuments have been received in the following states that the been received in the following states that the been received in the following states the been received in the been	No n this national stage application from the
A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.	
(a) including changes required by the Notice of Draftspers	· ·	PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)		rmal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Sun Paper No./M	nmary (PTO-413), ail Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	98), 7. ⊠ Examiner's Ar	mendment/Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's St 9. ☐ Other	atement of Reasons for Allowance
		ZARNI MAUNG
	SUPF	RVISORY PATENT EXAMINED

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Janaki K. Davda on July 14, 2005.

1. The application has been amended as follows:

In the claims:

In claim 7, please replace "the first and the second digital processors" with - - the first and the second host digital data processors - -.

In claim 8, please replace "the first host digital processor" with - - the first host digital data processor - -.

In claim 20, please replace "the file system" with - - a RAID file system - -.

In claim 20, please replace "the software RAID file system" with - - the RAID file system - -.

In claim 21, please replace "the file system" with - - a RAID file system - -.

In claim 22, please replace "the file system" with - - a RAID file system - -.

In claim 23, please replace "the file system" with - - a RAID file system - -.

In claim 24, please replace "the file system" with - - a RAID file system - -.

In claim 26, please replace "the file system" with - - a RAID file system - -.

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In claim 26, please replace "the software RAID file system" with - - the RAID file system - -.

In claim 27, please replace "the file system" with - - a RAID file system - -.

In claim 28, please replace "the file system" with - - a RAID file system - -.

In claim 29, please replace "the file system" with - - a RAID file system - -.

In claim 30, please replace "the file system" with - - a RAID file system - -.

2. The following is an examiner's statement of reasons for allowance:

Claims 1-29 are allowable over the prior art of record:

The first primary reason for allowance of the claims is the improvement over the prior art. The improvement comprises a system wherein the host digital data processor is associated with a lower capacity bound describing a minimum available storage capacity of the storage devices and the upper capacity bound describing a maximum available storage capacity of the storage devices, and a manager responding to a file system extension request by a host digital data processor, wherein the manager identifies storage devices from among the plurality of further storage devices accessible to the host digital data processor having capacities in a range between the lower bound and upper bound, taking into the account the number of stripes available in the file system, and the manager assigning the identified storage devices to the host digital data processor based upon the lower capacity bound and upper capacity bound.

The second primary reason for allowance of the claims is the because of the non-obvious process of assigning storage devices to the host digital data processor based upon the lower capacity bound and upper capacity bound by determining a number of storage (n) devices to be assigned according to a relation n=m+1, n=s, n=s*(m+1) and n=(m+1)*s; where m is the number

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of mirror redundancies in a RAID file system and s is the number of stripes in a RAID file

system.

Conclusion

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Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to KAMAL B. DIVECHA whose telephone number is 571-272-

5863. The examiner can normally be reached on Flex schedule 8 hr days (10.00am-6.30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Zarni Maung can be reached on 571-272-3939. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 15, 2005.

ZARNI MAUNG

SORY PATENT FXAMINER